UNITED STATES PATENT AND TRADEMARK OFFICE

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10/090,893	03/05/2002	Brian A. Cameron	5681-10500	6497

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ART UNIT	PAPER NUMBER
2157	

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Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

<table>
<tr><td rowspan="3"><i>Office Action Summary</i></td><td>Application No.</td><td>Applicant(s)</td></tr>
<tr><td>10/090,893</td><td>CAMERON ET AL.</td></tr>
<tr><td>Examiner</td><td>Art Unit</td></tr>
</table>

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	Examiner	Art Unit
	Amy Tran	2157

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on <u>05 March 2002</u>.

2a) ☐ This action is **FINAL**.   2b) ☒ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) *1-38* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) *1-38* is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All b) ☐ Some * c) ☐ None of:

      1. ☐ Certified copies of the priority documents have been received.

      2. ☐ Certified copies of the priority documents have been received in Application No. _____.

      3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>8/23/2003</u>.

4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

5) ☐ Notice of Informal Patent Application (PTO-152)

6) ☐ Other: _____.

DETAILED ACTION

1.   This action is responsive to the application filed on March 05, 2002. Claims 1-38

are pending examination. Claims 1-38 represents system and method of

synchronization of documents between a server and small devices.

Claim Rejections - 35 USC § 102

2.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3.   Claims 1-38 are rejected under 35 U.S.C. 102(b) as being anticipated by Clark et

al. (hereinafter Clark) US Patent 5,928,329.

As to claim 1, Clark teaches a system comprising: a server comprising a

document in a format supported by the server, wherein the document is available to one

or more devices via a network (column 6 lines 65-67, column 14 lines 43-47);

a small device configured to couple to the server (column 4 line 24 – column 5

line 16, column 6 lines 65 - 67);

wherein the server is configured to generate a small device document in a format

supported by the small device from the document in the format supported by the server

(column 14 lines 43-46, column 10 line 16-column 11 line 3);

wherein the small device is further configured to modify the small device

document (column 16 lines 14-18); and

wherein the server is further configured to synchronize the document in the format supported by the server with a modified version of the small device document on the small device (column 6 lines 65-67, column 10 line 63-column 11 line 3).

As to claim 2, Clark teaches the system of claim 1, wherein the document in the format supported by the server is an office productivity document (i.e. common applications such as word processor, spreadsheets and database files, column 10 line 17 – column 11 line 3).

As to claim 3, Clark teaches the system of claim 1, wherein, to generate a small device document in a format supported by the small device from the document in the format supported by the server (column 10 line 17- column 11 line 3, column 14 lines 43-46), the server is further configured to exclude one or more formats for content of the document in the format supported by the server from the small device document (column 6 lines 65-67, column 10 lines 44-47).

As to claim 4, Clark teaches the system of claim 1, wherein, to synchronize the document in the format supported by the server with a modified version of the small device document on the small device (column 6 lines 65-67, column 16 lines 36-42), the server is further configured to restore one or more formats for content of the document in the format supported by the server excluded from the small device document (column 6 lines 65-67, column 13 lines 2-10).

As to claim 5, Clark teaches the system of claim 1, wherein, to synchronize the document in the format supported by the server with a modified version of the small device document on the small device (column 6 lines 65-67, column 13 lines 2-10), the server is further configured to:

determine one or more formats for content of the modified version of the small device document to be merged with the document in the format supported by the server; and merge the content of the modified version of the small device document into the document in the format supported by the server in accordance with the determined one or more formats for the content (column 6 lines 65-67, column 15 line 61 – column 16 line 30).

As to claim 6, Clark teaches the system of claim 1, wherein, to synchronize the document in the format supported by the server with a modified version of the small device document on the small device (column 6 lines 65-67, column 13 lines 2-10), the server is further configured to:

compare modified content of the modified version of the small device document to corresponding content of the document in the format supported by the server to determine one or more formats for the modified content of the modified version of the small device document to be merged with the document in the format supported by the server; and merge the modified content of the modified version of the small device document into the document in the format supported by the server in accordance with

the determined one or more formats for the modified content (column 6 lines 65-67, column 15 line 61 – column 16 line 30).

As to claim 7, Clark teaches the system of claim 1, wherein, to synchronize the document in the format supported by the server with a modified version of the small device document on the small device, the server is further configured to generate a synchronized version of the document in the format supported by the server from the document in the format supported by the server and the modified version of the document (column 13 lines 2-15).

As to claim 8, Clark teaches the system of claim 1, wherein, to synchronize the document in the format supported by the server with the modified version of the small device document (column 6 lines 65-67, column 13 lines 2-15), the server is further configured to:

determine one or more differences between the modified version of the small device document and the document in the format supported by the server; and merge the determine one or more differences with content of the document in the format supported by the server to generate a synchronized version of the document in the format supported by the server (column 6 lines 65-67, column 15 line 60 – column 16 line 30).

As to claim 9, Clark teaches the system of claim 1 and claim 8, wherein, to determine one or more differences between the modified version of the small device document and the document in the format supported by the server (column 15 line 60 – column 16 line 9), the server is further configured to:

generate a modified document in the format supported by the server from the modified version of the small device document; and compare the modified document in the format supported by the server to the document in the format supported by the server (column 15 line 60 – column 16 line 30).

As to claim 10, Clark teaches the system of claim 1, wherein, to synchronize the document in the format supported by the server with the modified version of the small device document, the server is further configured to:

generate a modified document in an interim format from the modified version of the small device document; generate a document in the interim format from the document in the format supported by the server (column 13 lines 2-15);

determine one or more differences between the modified document in the interim format and the document in the interim format; and merge the determined one or more differences with content of the document in the interim format to generate a synchronized version of the document in the interim format(column 15 line 60 – column 16 line 30).

As to claim 11, Clark teaches the system of claim 1 and claim 10, wherein the server is further configured to generate a synchronized version of the document in the format supported by the server from the synchronized version of the document in the interim format (column 6 lines 65-67, column 16 lines 36-42).

As to claim 12, Clark teaches a server comprising: a processor; a memory operable to store program instructions (column 6 lines 65-67), wherein the program instructions are executable by the processor to:

generate a small device document in a format supported by one or more small devices from an original document in a format supported by the server in a format supported by the office productivity server, wherein one or more formats for content of the original document not supported by the one or more small devices are excluded from the small device document (column 6 lines 65-67, column 10 lines 16 – 47); and

provide the small device document to one of the one or more small devices coupled to the office productivity server (column 14 lines 43-46);

receive the modified version of the small device document from the small device; and generate a synchronized version of the original document from a modified version of the small device document (column 15 line 60 – column 16 line 30).

As to claim 13, Clark teaches the server of claim 12, wherein the original document is an office productivity document (i.e. common applications such as word

processor, spreadsheets and database files, column 6 lines 65-67, column 10 line 17 –

column 11 line 3).

As to claim 14, Clark teaches the server of claim 12, wherein, to generate a

synchronized version of the original document from a modified version of the small

device document (column 10 line 62-column 11 line 3), the program instructions are

further executable by the processor to restore in the synchronized version of the original

document at least one of the one or more formats for content of the original document

excluded from the small device document (column 10 line 16 – column 11 line 14).

As to claim 15, Clark teaches the server of claim 12, wherein, to generate a

synchronized version of the original document from a modified version of the small

device document, the program instructions are further executable by the processor to:

determine one or more formats for content of the modified version of the small

device document to be merged with the document in the format supported by the

server; and merge the content of the modified version of the small device document into

the original document in accordance with the determined one or more formats for the

content (column 6 lines 65-67, column 15 line 60 – column 16 line 30).

As to claim 16, Clark teaches the server of claim 12, wherein, to synchronize the

original document with a modified version of the small device document on the small

device, the server is further configured to:

compare modified content of the modified version of the small device document

to corresponding content of the original document to determine one or more formats for

the modified content of the modified version of the small device document to be merged

with the document in the format supported by the server; and merge the modified

content of the modified version of the small device document into the original document

in accordance with the determined one or more formats for the modified content

(column 6 lines 65-67, column 15 line 60 – column 16 line 30).

As to claim 17, Clark teaches the server of claim 12, wherein, to generate a

synchronized version of the original document from a modified version of the small

device document, the program instructions are further executable by the processor to:

determine one or more differences between the modified version of the small

device document and the original document; and merge the one or more differences

with content of the original document to generate a synchronized version of the

document in the format supported by the server (column 6 lines 65-67, column 15 line

60 – column 16 line 30).

As to claim 18, Clark teaches the server of claim 12 and claim 17, wherein, to

determine one or more differences between the modified version of the small device

document and the document in the format supported by the server, the server is further

configured to:

generate a modified document in the format supported by the server from the

modified version of the small device document; and compare the modified document in

the format supported by the server to the original document (column 15 line 60- column

16 line 30).

As to claim 19, Clark teaches the server of claim 12, wherein, to generate a

synchronized version of the original document from a modified version of the small

device document, the program instructions are further executable by the processor to:

generate a modified document in an interim format from the modified version of

the small device document ;generate a document in the interim format from the original

document ; determine one or more differences between the modified document in the

interim format and the document in the interim format; and merge the determined one or

more differences with content of the document in the interim format to generate a

synchronized version of the document in the interim format (column 6 lines 65-67,

column 15 line 60 – column 16 line 30).

As to claim 20, Clark teaches the server of claim 12 and claim 19, wherein the

program instructions are further executable by the processor to generate a

synchronized version of the document in the format supported by the server from the

synchronized version of the document in the interim format (column 10 line 16 – column

11 line 14).

As to claim 21, Clark teaches a method comprising:

generating a small device document in a format supported by a small device from an office productivity document in a format supported by an office productivity server (column 14 lines 43-46); modifying the small device document to generate a modified version of the small device document (column 16 line 15);

determining one or more differences between the modified version of the small device document and the office productivity document; and merging the one or more differences with content of the office productivity document to generate a synchronized version of the office productivity document (column 15 line 60 – column 16 line 30).

As to claim 22, Clark teaches the method of claim 21, wherein said determining one or more difference between the modified version of the small device document and the office productivity document comprises:

generating a modified office productivity document in the format supported by the server from the modified version of the small device document; and comparing the modified office productivity document to the original office productivity document to determine the one or more differences (column 15 line 60 – column 16 line 30).

As to claim 23, Clark teaches the method of claim 21, wherein said generating a small device document in a format supported by the small device from the office productivity document comprises excluding one or more formats for content of the office productivity document from the small device document (column 10 lines 39-47).

As to claim 24, Clark teaches the method of claim 21, wherein said merging the

one or more differences with content of the office productivity document to generate a

synchronized version of the office productivity document comprises restoring one or

more formats for content of the office productivity document excluded from the small

device document (column 15 line 60 – column 16 line 30).

As to claim 25, Clark teaches claim 21, wherein said merging the one or more

differences with content of the office productivity document to generate a synchronized

version of the office productivity document comprises:

determining one or more formats for content of the modified version of the small

device document to be merged with the office productivity document; and merging the

content of the modified version of the small device document into the office productivity

document in accordance with the determined one or more formats for the content

(column 15 line 60 – column 16 line 30).

As to claim 26, Clark teaches the method of claim 21, wherein said merging the

one or more differences with content of the office productivity document to generate a

synchronized version of the office productivity document comprises:

comparing modified content of the modified version of the small device document

to corresponding content of the office productivity document to determine one or more

formats for the modified content of the modified version of the small device document to

be merged with the office productivity document; and merging the modified content of

the modified version of the small device document into the office productivity document

in accordance with the determined one or more formats for the modified content

(column 15 line 60 – column 16 line 30).

As to claim 27, Clark teaches the method of claim 21, wherein said generating a

small device document, said determining one or more differences, and said merging the

one or more differences with content of the office productivity document are performed

within the office productivity server (column 6 lines 65-67, column 15 line 60 – column

16 line 30).

As to claim 28, Clark teaches the method of claim 21, wherein said modifying the

small device document is performed within the small device (column 10 lines 37-47).

As to claim 29, Clark teaches the method of claim 21, Clark further teaches

generating a modified document in an interim format from the modified version of the

small device document; generating a document in the interim format from the office

productivity document (column 3 lines 35-40);

wherein said determining one or more formats for content of the modified version

of the small device document to be merged with the office productivity document

comprises determining one or more differences between the modified document in the

interim format and the document in the interim format; and wherein said merging the

content of the modified version of the small device document into the office productivity

document in accordance with the determined one or more formats for the content

comprises merging the determined one or more differences with content of the

document in the interim format to generate a synchronized version of the document in the interim format (column 15 line 60 – column 16 line 30).

As to claim 30, Clark teaches an article of manufacture comprising program instructions, wherein the program instructions are computer-executable to implement:

generating a small device document in a format supported by a small device from an office productivity document in a format supported by an office productivity server (column 6 lines 65-67, column 14 lines 43-46, column 10 lines 37-47);

modifying the small device document to generate a modified version of the small device document (column 16 line 15);

determining one or more differences between the modified version of the small device document and the office productivity document; and merging the one or more differences with content of the office productivity document to generate a synchronized version of the office productivity document (column 15 line 60 – column 16 line 30).

As to claim 31, Clark teaches the article of manufacture of claim 30, wherein, in said determining one or more differences between the modified version of the small device document and the office productivity document, the program instructions are further computer-executable to implement:

generating a modified office productivity document in the format supported by the server from the modified version of the small device document; and comparing the modified office productivity document to the original office productivity document to determine the one or more differences (column 15 line 60-column 16 line 30).

As to claim 32, Clark teaches the article of claim 30, wherein, said generating a

small device document in a format supported by the small device from the office

productivity document, the program instructions are further computer-executable to

implement excluding one or more formats for content of the office productivity document

from the small device document (column 10 lines 44-47).

As to claim 33, Clark teaches the article of manufacture of claim 30, wherein,

said merging the one or more differences with content of the office productivity

document to generate a synchronized version of the office productivity document, the

program instructions are further computer-executable to implement restoring one or

more formats for content of the office productivity document excluded from the small

device document (column 10 lines 44-47, column 15 line 60 – column 16 line 30).

As to claim 34, Clark teaches the article of manufacture of claim 30, wherein,

said merging the one or more differences with content of the office productivity

document to generate a synchronized version of the office productivity document, the

program instructions are further computer-executable to implement:

determining one or more formats for content of the modified version of the small

device document to be merged with the office productivity document; and merging the

content of the modified version of the small device document into the office productivity

document in accordance with the determined one or more formats for the content

(column 15 line 60 – column 16 line 30).

As to claim 35, Clark teaches the article of manufacture of claim 30, wherein,

said merging the one or more differences with content of the office productivity

document to generate a synchronized version of the office productivity document, the

program instructions are further computer-executable to implement:

comparing modified content of the modified version of the small device document

to corresponding content of the office productivity document to determine one or more

formats for the modified content of the modified version of the small device document to

be merged with the office productivity document; and merging the modified content of

the modified version of the small device document into the office productivity document

in accordance with the determined one or more formats for the modified content

(column 15 line 60 – column 16 line 30) .

As to claim 36, Clark teaches the article of manufacture of claim 30, wherein said

generating a small device document, said determining one or more differences, and

said merging the one or more differences with content of the office productivity

document are performed within the office productivity server (column 15 line 60 –

column 16 line 30).

As to claim 37, Clark teaches the article of manufacture of claim 30, wherein said modifying the small device document is performed within the small device (column 10 lines 37-47).

As to claim 38, Clark teaches the article of manufacture of claim 30, wherein the program instructions are further computer-executable to implement:

generating a modified document in an interim format from the modified version of the small device document; generating a document in the interim format from the office productivity document (column 3 lines 35-40);

wherein said determining one or more formats for content of the modified version of the small device document to be merged with the office productivity document comprises determining one or more differences between the modified document in the interim format and the document in the interim format; and wherein said merging the content of the modified version of the small device document into the office productivity document in accordance with the determined one or more formats for the content comprises merging the determined one or more differences with content of the document in the interim format to generate a synchronized version of the document in the interim format (column 15 line 60 – column 16 line 30).

Conclusion

4.   The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure:

Beyda et al. US Patent 6,470,358 discloses remote synchronization with

intelligent power management.

Morgan et al. US Patent 5,239,466 discloses system for selectively routing and

merging independent annotations to a document at remote locations.

Pivowar et al. US Patent 6,308,201 discloses system and method for sharing

data among a plurality of personal digital assistants.

Contact Information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Amy Tran whose telephone number is (571) 272-4243.

The examiner can normally be reached on M-F from 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ario Etienne can be reached on (571) 272-4001. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the
Patent Application Information Retrieval (PAIR) system. Status information for
published applications may be obtained from either Private PAIR or Public PAIR.
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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should
you have questions on access to the Private PAIR system, contact the Electronic
Business Center (EBC) at 866-217-9197 (toll-free).

at
3/25/05

SALEH NAJJAR
PRIMARY EXAMINER